

ATTACHMENT 6. BUDGET

The City of Modesto is requesting a total of \$249,990 in grant funding for implementation of its Modesto Groundwater Basin Characterization and Recharge Study to prepare an Integrated Groundwater Management and Augmentation Plan (IGMAP), as described in Attachment 5, Work Plan of this 2012 Local Groundwater Assistance (LGA) grant application.

The Work Plan included in this Proposal consists of seven tasks designed to identify areas in the Modesto Groundwater Subbasin where either direct and/or indirect groundwater augmentation may occur to both manage basin groundwater levels and to provide for banking of seasonally-available surplus treated surface water in the subsurface for future use. These tasks include:

Task 1: Grant Administration, Project Management and Coordination

Task 2: Groundwater Data Collection and Analysis

Task 3: Identify Basin Needs and Develop Basin-wide Vision

Task 4: Develop Methodology to Prioritize Projects

Task 5: Aquifer Hydrogeologic Characterization and Aquifer Recharge Analysis

Task 6: Project and Opportunity Identification and Prioritization

Task 7: Prepare Integrated Groundwater Management Augmentation Plan

The work products created through implementation of the Work Plan will be used to augment current understanding of the Modesto Subbasin hydrodynamics, to improve groundwater management, and to promote the identification and development of groundwater banking and conjunctive use projects or programs. This Project will also coordinate with and contribute to the overall integrated regional water management (IRWM) planning effort currently underway in the East Stanislaus IRWM region and will provide essential information required to update the existing *Integrated Regional Groundwater Management Plan for the Modesto Subbasin* (Bookman-Edmonston, 2005).

The budget presented in the attached table is consistent with both the Project work plan, presented in Attachment 5, and the Project schedule, presented in Attachment 7 of this grant application. This budget was prepared based on professional experience with projects similar in nature and on recent experience in public outreach and stakeholder engagement as implemented during the East Stanislaus IRWM planning process. Anticipated hourly rates and associated labor categories required for this Project are shown on the attached fee estimate. Please note, that for this application, Subtasks 1.1 and 1.4 are considered to be direct project administration whereas Subtasks 1.2 and 1.3 are required for overall project coordination and implementation and are therefore not considered to be direct project administration.

No other funding has currently been secured for this project, although a similar project was submitted as part of the East Stanislaus IRWM region's Proposition 84 Round 2 Planning Grant application in March of 2012. Award notifications for this round of planning grant funding has not yet been released. Additionally, please note, that the City of Modesto has included approximately \$100,000 in its Fiscal Year (FY) 2012/2013 budget to further results documented in the IGMAP

through the implementation of site-specific field studies and/or pilot testing identified during completion of the proposed Project. This work would be completed after completion of the scope of work described in this grant application, and is therefore not included in this budget estimate.

Fee Estimate

City of Modesto Groundwater Basin Characterization and Recharge Study
2012 Local Groundwater Assistance Grant Application

Tasks	Consultant Labor							ODCs		Total		
	Principal/ Senior Engineer	Project Manager	Project/Staff Engineer	Graphics	Admin.	Total Hours	Total Labor Costs (1)	ODCs	Total ODCs (3)	Total Fee	Non-State Share (Funding Match)	Requested Funding
				Graphics and Support								
	\$215	\$185	\$140	\$75	\$75							
Task 1: Grant Administration, Project Management and Coordination												
Subtask 1.1: LGA Funding Agreement Administration	10		40			50	\$7,750	\$0	\$0	\$7,750	\$0	\$7,750
Subtask 1.2: Project Implementation Coordination												
Kickoff Meeting	4	8	12			24	\$4,020	\$200	\$220	\$4,240	\$0	\$4,240
Progress Meetings	12		40			52	\$8,180	\$200	\$220	\$8,400	\$0	\$8,400
Subtask 1.3: Consultant Contract Administration	4		20			24	\$3,660	\$0	\$0	\$3,660	\$0	\$3,660
Subtask 1.4: Quarterly and Final Reporting	6		16			22	\$3,530	\$50	\$55	\$3,585	\$0	\$3,585
Subtotal 1:	36	8	128	0	0	172	\$27,140	\$450	\$495	\$27,635	\$0	\$27,635
Task 2: Groundwater Data Collection and Analysis												
Data Needs Assessment	2	16	48			66	\$10,110	\$0	\$0	\$10,110	\$0	\$10,110
Groundwater/Watershed Data Collection and Mapping	4	20	40			64	\$10,160	\$200	\$220	\$10,380	\$0	\$10,380
Well Data Collection	4	20	40			64	\$10,160	\$200	\$220	\$10,380	\$0	\$10,380
Monitoring Plan Re-evaluation	4	16	40			60	\$9,420	\$0	\$0	\$9,420	\$0	\$9,420
Subtotal 2:	14	72	168	0	0	254	\$39,850	\$400	\$440	\$40,290	\$0	\$40,290
Task 3: Identify Basin Needs and Develop Basin-wide Vision												
Basin Needs Identification	8	16	24			48	\$8,040	\$0	\$0	\$8,040	\$0	\$8,040
Develop Basin-wide Vision	8	16				24	\$4,680	\$100	\$110	\$4,790	\$0	\$4,790
Subtotal 3:	16	32	24	0	0	72	\$12,720	\$100	\$110	\$12,830	\$0	\$12,830
Task 4: Develop Methodology to Prioritize Projects												
Project Prioritization Methodology	20		40			60	\$9,900	\$0	\$0	\$9,900	\$0	\$9,900
Subtotal 4:	20	0	40	0	0	60	\$9,900	\$0	\$0	\$9,900	\$0	\$9,900
Task 5: Aquifer Hydrogeologic Characterization and Aquifer Recharge Analysis												
Conceptual Model Development	8	32	80	16	8	144	\$20,640	\$0	\$0	\$20,640	\$0	\$20,640
Aquifer Recharge Analysis	10	32	100	16	8	166	\$23,870	\$800	\$880	\$24,750	\$0	\$24,750
Water Quality Evaluation	4	32	60	8		104	\$15,780	\$250	\$275	\$16,055	\$0	\$16,055
Subtotal 5:	22	96	240	40	16	414	\$60,290	\$1,050	\$1,155	\$61,445	\$0	\$61,445
Task 6: Project and Opportunity Identification and Prioritization												
Project/Program/Opportunity Identification and Development	12	60	80	10		162	\$25,630	\$0	\$0	\$25,630	\$0	\$25,630
Project/Program/Opportunity Prioritization	8	32	48		8	96	\$14,960	\$800	\$880	\$15,840	\$0	\$15,840
Subtotal 6:	20	92	128	10	8	258	\$40,590	\$800	\$880	\$41,470	\$0	\$41,470
Task 7: Prepare Integrated Groundwater Management and Augmentation Plan												
Administrative Draft Plan	8	32	80	12	8	140	\$20,340	\$200	\$220	\$20,560	\$0	\$20,560
Public Draft Plan	6	24	48	8	8	94	\$13,650	\$200	\$220	\$13,870	\$0	\$13,870
Final Plan	4	16	32	4	8	64	\$9,200	\$200	\$220	\$9,420	\$0	\$9,420
Meetings and Conference Calls	12	32	24		8	76	\$12,460	\$100	\$110	\$12,570	\$0	\$12,570
Subtotal 7:	30	104	184	24	32	374	\$55,650	\$700	\$770	\$56,420	\$0	\$56,420
TOTAL	158	404	912	74	56	1604	\$246,140	\$3,500	\$3,850	\$249,990	\$0	\$249,990